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LEAD ARSENATE AS A REMEDY FOR CHEWING INSECTS.

Substances containing arsenic, applied on the food of chewing insects, like caterpillars, have long been known to kill them, and Paris green and London purple have been used for the purpose very extensively. Within recent years, however, these poisons have been largely replaced by **lead arsenate**, which, for a number of good reasons, is at present the best known and **most used insecticide for chewing insects.**

CAUTION.- Lead arsenate is a violent stomach poison, fatal to man and beast when swallowed, hence great caution is necessary in handling it, especially where children and live stock are about.

QUANTITIES AND APPLICATION.- Lead arsenate is now procurable in most seed stores in the form of a white paste or powder. The powder is preferable. For spraying purposes the lead arsenate as purchased is mixed with water in the following proportions, (**teaspoons should be heaping full**):

To each 1 gallon of water add **paste** - 1 teaspoonful, or **powder** - 3 teaspoonful.
" " 50 gallons of water add **paste** - 2 pounds, or **powder** - 1 pound.

NOTE: Lead arsenate should be applied as soon as injury by chewing insects is noticed.

In the original containers the arsenate paste is apt to become compacted and, unless it is thoroughly mixed in a little water before using, may clog spray nozzles or settle on the bottom and thereby interfere with the uniformity of the strength of the poison.

Lead arsenate is heavier than water so that, unless the mixture is **constantly and thoroughly agitated** while it is being used, it settles on the bottom of containers.

Best results are obtained when it is deposited as a fine mist uniformly all over portions of plants liable to be eaten by the insects and not applied so coarsely or heavily that it will run. A fine filmy covering is preferable to heavily coated spots between which the insects may feed without harm to themselves.

In the case of insects feeding on one side the spray should be aimed at the side of the leaves on which most of the insects are feeding.

A. D. HOPKINS,

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THE HISTORY OF THE UNITED STATES

The history of the United States is a story of growth and development. It begins with the first settlers who came to the continent in search of a better life. They found a land of vast resources and a people who were eager to learn from them. The story continues through the years of struggle and triumph, from the founding of the nation to the present day.

CAUTION: This book is a valuable source of information. It should be handled with care and its contents should be read with attention. The author has taken great pains to ensure the accuracy of the information presented.

QUESTIONS AND ANSWERS: This section contains a series of questions and answers that address some of the most common queries about the history of the United States. It is a valuable resource for students and anyone interested in the subject.

NOTE: The information in this book is based on the best available sources. However, it is not intended to be a definitive statement of fact. It is a guide to the subject and should be used as such.

Finally, it is important to remember that the history of the United States is a story of progress and achievement. It is a story of a people who have overcome many challenges and who have built a nation that is a source of pride and inspiration for all.

The author of this book is a leading expert on the history of the United States. He has spent many years researching the subject and has written many books on the topic. His expertise is reflected in the quality and depth of the information presented in this book.

A. B. BROWN

Author, Historian